

**HIGHLY AVAILABLE, MONOTONIC INCREASING SEQUENCE NUMBER
GENERATION****ABSTRACT OF THE DISCLOSURE**

The present invention relates to highly available sequence number generation with
5 minimal latency. The present invention involves establishing a primary and secondary
sequence number generators. A sequence number request is forwarded to the primary
generator. The primary generator determines the next sequence number and forwards the
response to the secondary generator. The secondary generator stores the value and forwards
10 the value to the originating entity. Accordingly, the configuration avoids single point failure
and is robust against malfunction.